1   **<u>CLAIMS</u>**

2   What is claimed is:

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1   1.   A method of establishing a real time streaming media session between a first

2   client with a local area network address and a second client, the method comprising:

3   receiving an invite message from the first client over an internet protocol channel,

4   the invite message including identification of an IP address of the first client;

5   comparing a source IP address extracted from the internet protocol channel to

6   the IP address of the first client;

7   establishing a relay server resource if the IP address extracted from the internet

8   protocol channel does not match the IP address of the first client; and

9   providing identification of the relay server resource to each of the first client and

10   the second client.

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1   2.   The method of claim 1, wherein the step of establishing a relay server resource

2   comprises:

3   providing a relay server resource request message to a relay server; and

4   receiving a resource message from the relay server that includes identification of

5   the relay server resource.

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1   3.   The method of claim 2, wherein:

2   the relay server request message is a SIP invite message;

3   the resource message is a SIP redirect message that includes a session

4   description protocol payload that identifies the relay server resource.

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1   4.   The method of claim 1, wherein the step of providing identification of the relay

2   server resource to the first client comprises including the session description protocol

3   payload that identifies the relay server resource in a SIP OK message addressed to the

4   IP address extracted from the internet protocol channel.

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1 5.   The method of claim 4, wherein the step of establishing a relay server resource

2 comprises:

3   providing a relay server resource request message to a relay server; and

4   receiving a resource message from the relay server that includes identification of

5 the relay server resource.

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1 6.   The method of claim 5, wherein:

2   the relay server request message is a SIP invite message;

3   the resource message is a SIP redirect message that includes a session

4 description protocol payload that identifies the relay server resource.

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1 7.   A proxy server for establishing a real time streaming media session between a

2 first client with a local area network address and a second client, the method

3 comprising:

4   a network interface for exchanging session messaging with remote devices over

5 an internet protocol network;

6   a session signaling module for receiving an invite message from the first client

7 over a designated internet protocol channel, the invite message including identification

8 of an IP address of the first client;

9   a comparison engine for comparing a source IP address extracted from the

10 internet protocol channel to the IP address of the first client;

11   a relay server resource engine for establishing a relay server resource if the IP

12 address extracted from the internet protocol channel does not match the IP address of

13 the first client; and

14   a messaging module for:

15   generating a an invite message to the second client that includes identification of

16 the relay server resource; and

17   generating a response message to the first client that includes identification of

18 the relay server resource.

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1   8.   The proxy server of claim 7, wherein the relay server resource engine

2   establishes a relay server resource by:

3   providing a relay server resource request message to a relay server; and

4   receiving a resource message from the relay server that includes identification of

5   the relay server resource.

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1   9.   The proxy server of claim 8, wherein:

2   the relay server request message is a SIP invite message;

3   the resource message is a SIP redirect message that includes a session

4   description protocol payload that identifies the relay server resource.

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1   10.   The proxy server of claim 7, wherein the response message to the first client is

2   addressed to the IP address extracted from the internet protocol channel and comprises

3   including the session description protocol payload that identifies the relay server

4   resource.

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1   11.   The proxy server of claim 10, wherein the response message is a SIP OK

2   message.

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1   12.   The proxy server of claim 10, wherein the invite message to the second client

2   includes the session description protocol payload that identifies the relay server

3   resource.

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